

Abstract

A transparent screen is provided with a refraction/total reflection plate in a form of a Fresnel lens, the refraction/total reflection plate having a sawtooth
5 light-incidence-side surface upon which light to be projected is incident, and a light-emitting-side surface via which the light to be projected exits, and an image formation/display plate for forming a projection image from the light that exits from the refraction/total reflection plate. A plurality of
10 refraction slating surface portions each for refracting an incident ray of light to be projected towards the light-emitting-side surface of the refraction/total reflection plate, a plurality of transmission slating surface portions each for making an incident ray of light to be
15 projected pass therethrough, and a plurality of total reflection slating surface portions each for reflecting an incident ray of light passing through one of the plurality of transmission slating surface portions towards the light-emitting-side surface of the refraction/total
20 reflection plate being formed concentrically on the sawtooth light-incidence-side surface of the refraction/total reflection plate. The refraction/total reflection plate is formed of a transparent material in which no scattering particles are dispersedly disposed.